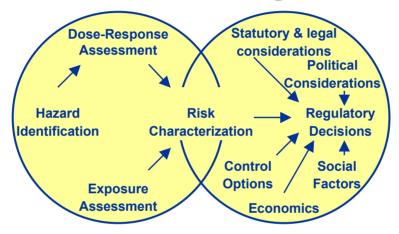
Alignment of ORD Labs with Risk Paradigm

Risk Risk Assessment Management



National Exposure Research Laboratory

National Health and Environmental Effects Research Laboratory National
Center for
Environmental
Assessment

National Risk Management Research Laboratory

National
Center for
Environmental
Research

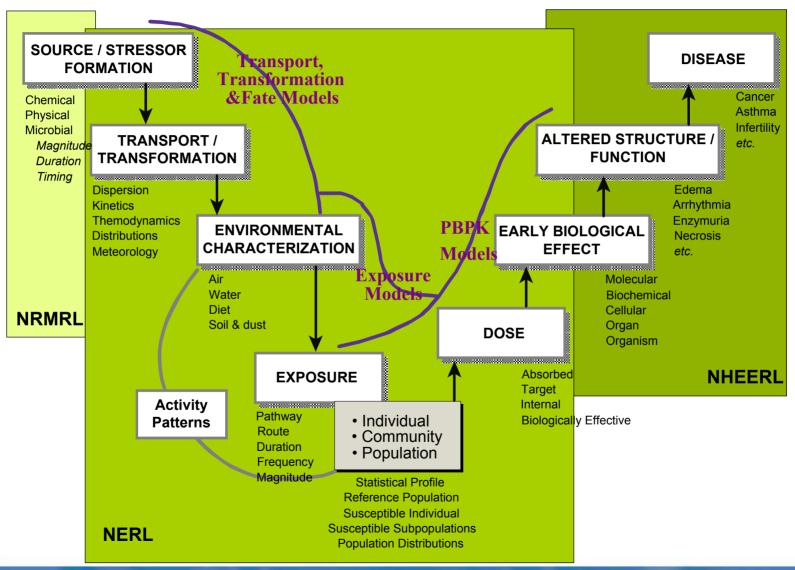
Research to measure, characterize & assess exposures and to support compliance with environmental regulations and policies

Research to identify hazards & characterize "Dose-Response" Risk characterization & research on risk assessment methods

Research & technology transfer to prevent, mitigate & control pollution Extramural program grants, fellowships, & national centers of excellence - to complement ORD's intramural program



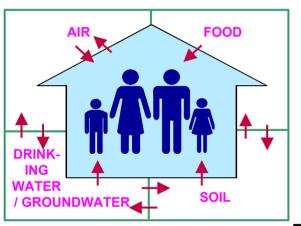
Role of ORD Labs in the Source-Exposure-Dose-Effects Continuum





Exposure: Definitions

Exposure



- Contact of a chemical, physical, or biological agent with the outer boundary of an organism.
 - Exposure is quantified as the concentration of the agent in the medium in contact, integrated over the time duration of that contact.

Exposure Route

 The way a chemical or pollutant enters an organism after contact, e.g., by ingestion, inhalation or dermal absorption

